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Membrane reconstitution and functional analysis of a sugar transport system

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ABBREVIATIONS

Δp (or **pmf)**, proton motive force; **α -NPG**, p-nitrophenyl- α -D-galactopyranoside; **bp**, base pair(s); **BSA**, bovine serum albumin; **CCCP**, carbonyl cyanide *m*-chlorophenylhydrazone; **C₁₀E₆**, hexaethyleneglycol mono-*n*-decyl ether; **C₁₀E₈**, octaethyleneglycol mono-*n*-decyl ether; **C₁₂E₆**, hexaethyleneglycol mono-*n*-dodecyl ether; **C₁₂E₈**, octaethyleneglycol mono-*n*-dodecyl ether; **CHAPS**, 3-((3-cholamidopropyl)dimethylammonio)-1-propane-sulfonate; **CHAPSO**, 3-((3-cholamidopropyl)dimethylammonio)-2-hydroxy-1-propane-sulfonate; **CMC**, critical micelle concentration; **CL**, cardiolipin; **cryo-TEM**, cryo-transmission electron microscopy; **CSPD**, disodium 3-(4-methoxyspiro{1,2,-dioxetane-3,2'-(5'-chloro)tricyclo-[3.3.1.1]decan}-4-yl)phenyl phosphate; **CTAB**, cetyltrimethylammonium bromide; **DDAO**, N-dodecyl-N,N-dimethylamine-N-oxide (or lauryldimethylamine-*n*-oxide, **LDAO**); **DDM**, *n*-dodecyl- β -D-maltoside; **DM**, *n*-decyl- β -D-maltoside; **DTT**, dithiothreitol; **IP TG**, isopropyl- β -D-thiogalactopyranoside; **kb**, kilobase(s); **K_d**, dissociation constant; **Lactose**, 4-O- β -galactopyranosyl-D-glucose; **Melibiose**, 6-O- α -galactopyranosyl-D-glucose; **MPB**, 3-(N-maleimidylpropionyl)-biocytin; **Methyl- α -Gal**, methyl- α -D-galactopyranoside; **n.d.**, not determined; **NT**, not transported; **NTA**, nitrilotriacetic acid; **OG (octylglucoside)**, *n*-octyl- β -D-glucopyranoside; **PAGE**, polyacrylamide gel electrophoresis; **PBS**, phosphate buffered saline; **PC**, phosphatidylcholine; **PCR**, polymerase chain reaction; **PE**, phosphatidylethanolamine; **PEP**, phosphoenolpyruvate; **PG**, phosphatidylglycerol; **PL**, phospholipids; **PS**, phosphatidylserine; **PTS**, phosphotransferase system; **PVDF**, polyvinylidene difluoride; **R_e**, effective detergent/lipid molar ratio; **R_{sat}**, effective detergent/lipid molar ratio for bilayer saturation; **R_{sol}**, effective detergent/lipid molar ratio for bilayer solubilization; **SDS**, sodium dodecyl sulfate; **TEM**, transmission electron microscopy; **TID**, 3-(trifluoromethyl)-3-(*m*-iodophenyl)diazirine; **TMG**, methyl- β -D-thiogalactopyranoside; **Triton X-100**; poly(ethylene glycol) *p*-isooctylphenyl ether